

Serial No. 10/729,431  
Wakefield, et al.  
Filed December 5, 2003

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Response to Office Action  
Examiner: Phuong Thao Cao  
Group Art Unit: 2164

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**INVENTORS:** Todd D. Wakefield and David L. Bean

**TITLE:** Methods and Products for Producing Role-Related  
Information from Free Text Sources

**FILING DATE:** December 5, 2003 **CONFIRMATION NO.:** 8399

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Amendment and Claims Listing

Please amend the claims as follows:

Claim 1 (currently amended) 1. A computer program product located to one or more storage media devices usable to produce structured data from unstructured free text, said computer program product comprising instructions executable by a computer to perform the functions of:

accessing a source of data records that contain structured and unstructured data,  
the unstructured data including free text, and the unstructured data of a particular  
record containing information related to the structured data in that record;  
identifying text records within the free text; linguistically parsing the free text  
identified text records;

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extracting multi-dimensional relational facts from the parsed free text, the multi-dimensional relational facts relating to the structured data of the data record from which the free text was taken, and the multi-dimensional relational facts including a plurality of attributes derived from the free text

said extracting step including identifying roles within the parsed text records, said identifying producing attribute extractions, each of said attribute extractions containing attribute role information of the derived source text;

applying caseframes to extractions, said applying caseframes producing a filtered set of attribute extractions;

filtering the identified attribute extractions with a criteria; and

producing a structured data element from the filtered set of attribute extractions,

said filtered set of attribute extractions containing relational facts relating to said structured data.

Claim 2 (original) 2. A computer program product according to claim 1, wherein said instructions are further executable to perform the function of identifying domains of the filtered set of attribute extractions.

Claim 3 (currently amended) 3. A computer program product according to claim 2, wherein said instructions are further executable to perform the function of assigning the assignment of domain roles to the extractions.

Claim 4 (original) 4. A computer program product according to claim 3, wherein said instructions are further executable to perform the function of producing relation types.

Claim 5 (original) 5. A computer program product according to claim 1, wherein said instructions are further executable to perform the function of creating a new database containing the structured data element produced in said producing a structured data element.

Claim 6 (original) 6. A computer program product according to claim 1, wherein said instructions are further executable to perform the function of producing a file containing the structured data element

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produced in said producing a structured data element.

Claim 7 (original) 7. A computer system including a computer program product according to claim 1, further comprising: a processing unit coupled to said one or more storage media devices, said processing unit being capable of executing said instructions; and an execution command unit, whereby operation of said instructions and said processing unit may be commanded or controlled.

Claim 8 (original) 8. A computer program product according to claim 1, wherein the structured data element produced by the performance of said producing includes reference information to the original free text for construed data.

Claim 9 (currently amended) 9. A method for generating structured data from unstructured free text, comprising the steps of:

accessing a source of data records that contain structured and unstructured data, the unstructured data including free text, and the unstructured data of a particular record containing information related to the structured data in that record;  
identifying text records within the free text; linguistically parsing the identified text records;  
linguistically parsing the free text;  
extracting multi-dimensional relational facts from the parsed free text, the multi-dimensional relational facts relating to the structured data of the data record from which the free text was taken, and the multi-dimensional relational facts including a plurality of attributes derived from the free text;

said extracting step including identifying roles within the parsed text records, said-identifying-producing attribute extractions, each of the attribute extractions containing attribute role information of the derived source text;

filtering the identified attribute extractions with a criteria; and  
producing a structured data element from the filtered set of attribute extractions, the structured data element including multi-dimensional relational facts that relate to the structured data of the source of data records.

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Claim 10 (original) 10. A method according to claim 9, further comprising the step of identifying domains of the filtered set of attribute extractions.

Claim 11 (original) 11. A method according to claim 10, further comprising the step of assigning domain roles.

Claim 12 (original) 12. A method according to claim 11, further comprising the step of producing relation types.

Claim 13 (original) 13. A method according to claim 9, further comprising the step of creating a new database containing the structured data element produced in said producing.

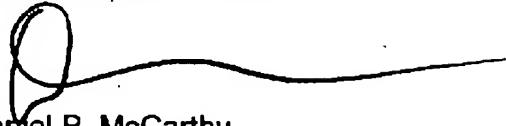
Claim 14 (original) 14. A method according to claim 9, further comprising the step of producing a file containing the structured data element produced in said producing a structured data element.

Claim 15 (currently amended) 15. A method according to claim 9, wherein the structured data element produced by the step of said producing includes reference information to the original free text for-  
construed data.

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Daniel P. McCarthy  
Reg. No. 36,600  
P.O. Box 71550  
Salt Lake City, UT 84171-0550  
Tel 801 661 8998  
Fax 435 615 9669  
Email: [dmccart@xmission.com](mailto:dmccart@xmission.com)